

Title (en)
Controlled deflection roller

Title (de)
Durchbiegungseinstellwalze

Title (fr)
Rouleau à compensation de flèche

Publication
EP 1281879 B1 20060809 (DE)

Application
EP 02009899 A 20020502

Priority
DE 10137326 A 20010731

Abstract (en)
[origin: EP1281879A2] The adjustable bending roller (10) has a rotating roller mantle (12) around a fixed axial yoke (14), with a hydrostatic support unit (16). The support has a piston/cylinder system, with a fluid feed, to bear against the inner surface of the roller mantle. The hydrostatic pockets (22) are supplied with a fluid under pressure, through at least one throttle or capillary (24), to maintain a constant volume flow of oil under pressure independently of the pressure zone (18) of the hydrostatic support.

IPC 8 full level
F16C 13/00 (2006.01); **D21G 1/02** (2006.01)

CPC (source: EP US)
D21G 1/022 (2013.01 - EP US); **F16C 13/028** (2013.01 - EP US)

Cited by
EP1593864A1

Designated contracting state (EPC)
DE FI SE

DOCDB simple family (publication)
EP 1281879 A2 20030205; EP 1281879 A3 20041201; EP 1281879 B1 20060809; DE 10137326 A1 20030220; DE 50207767 D1 20060921; US 2004087422 A1 20040506; US 2005130819 A1 20050616; US 2009018002 A1 20090115; US 7182721 B2 20070227; US 7914429 B2 20110329

DOCDB simple family (application)
EP 02009899 A 20020502; DE 10137326 A 20010731; DE 50207767 T 20020502; US 17692308 A 20080721; US 20703402 A 20020730; US 3980405 A 20050124